

WHAT IS CLAIMED IS:

1. A fuel control method for a combined plant that includes a gas turbine and a steam turbine connected to each other via a clutch, of controlling an increase or decrease of the fuel for the combined plant according to a difference between a target load set value input from a host computer and a value obtained by feeding back an actual load, the fuel control method comprising steps of:

detecting an engagement period or a disengagement period of the clutch to output a period detected signal when either of the periods

- 10 is detected; and

switching the target load set value to the actual load during a fixed period before and after the engagement of the clutch and a fixed period before and after the disengagement of the clutch upon receipt of the detected signal as a trigger.

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2. A fuel control method for a combined plant that includes a gas turbine and a steam turbine connected to each other via a clutch, of controlling an increase or decrease of the fuel for the combined plant according to a difference between a target load set value input from a host computer and a value obtained by feeding back an actual load, the fuel control method comprising steps of:

detecting an engagement period or a disengagement period of the clutch to output a period detected signal when either of the periods is detected; and

- 25 substituting a predetermined constant value for the difference

stored on a memory during a fixed period before and after the engagement of the clutch and a fixed period before and after the disengagement of the clutch upon receipt of the detected signal as a trigger.

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3. A fuel control method for a combined plant that includes a gas turbine and a steam turbine connected to each other via a clutch, of producing a revolution number command of the gas turbine according to a first difference between a target load set value input from a host computer and a value obtained by feeding back an actual load, and controlling an increase or decrease of the fuel for the combined plant according to a second difference obtained by comparing an actual revolution number of the gas turbine with the revolution number command, the fuel control method comprising steps of:
 - 15 detecting an engagement period or a disengagement period of the clutch to output a period detected signal when either of the periods is detected; and
substituting a predetermined constant value for the revolution number command stored on a memory during a fixed period before and after the engagement of the clutch and a fixed period before and after the disengagement of the clutch upon receipt of the detected signal as a trigger.
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4. A program for allowing a computer to execute a fuel control method for a combined plant that includes a gas turbine and a steam turbine connected to each other via a clutch, the method of controlling an increase or decrease of the fuel for the combined plant according to
5 a difference between a target load set value input from a host computer and a value obtained by feeding back an actual load, the fuel control method comprising steps of:

detecting an engagement period or a disengagement period of the clutch to output a period detected signal when either of the periods
10 is detected; and

switching the target load set value to the actual load during a fixed period before and after the engagement of the clutch and a fixed period before and after the disengagement of the clutch upon receipt of the detected signal as a trigger.

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5. A program for allowing a computer to execute a fuel control method for a combined plant that includes a gas turbine and a steam turbine connected to each other via a clutch, the method of controlling an increase or decrease of the fuel for the combined plant according to
20 a difference between a target load set value input from a host computer and a value obtained by feeding back an actual load, the fuel control method comprising steps of:

detecting an engagement period or a disengagement period of the clutch to output a period detected signal when either of the periods
25 is detected; and

substituting a predetermined constant value for the difference stored on a memory during a fixed period before and after the engagement of the clutch and a fixed period before and after the disengagement of the clutch upon receipt of the detected signal as a
5 trigger.

6. A program for allowing a computer to execute a fuel control method for a combined plant that includes a gas turbine and a steam turbine connected to each other via a clutch, the method of producing a
10 revolution number command of the gas turbine according to a first difference between a target load set value input from a host computer and a value obtained by feeding back an actual load, and controlling an increase or decrease of the fuel for the combined plant according to a second difference obtained by comparing an actual revolution number
15 of the gas turbine with the revolution number command, the fuel control method comprising steps of:

detecting an engagement period or a disengagement period of the clutch to output a period detected signal when either of the periods is detected; and

20 substituting a predetermined constant value for the revolution number command stored on a memory during a fixed period before and after the engagement of the clutch and a fixed period before and after the disengagement of the clutch upon receipt of the detected signal as a trigger.

7. A fuel control apparatus in a combined plant that includes a gas turbine and a steam turbine connected to each other via a clutch, the apparatus that controls an increase or decrease of the fuel for the combined plant according to a difference between a target load set value input from a host computer and a value obtained by feeding back an actual load, the fuel control apparatus comprising:

- an input unit that receives input about a target load set value output from a host computer and an actual load;
- a trigger unit that detects an engagement period and a disengagement period of the clutch to output a period detected signal when either of the periods is detected;
- a calculation unit that, when receiving the detected signal, switches the target load set value to the actual load for a fixed period from the receipt of the detected signal or substitutes a predetermined constant value for the difference stored on a memory, and determines a control output for a fuel control valve by multiplying the difference being the constant value by a gain; and
- an output unit that outputs the control output to the fuel control valve.

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8. A fuel control apparatus in a combined plant that includes a gas turbine and a steam turbine connected to each other via a clutch, the apparatus that produces a revolution number command of the gas turbine according to a first difference between a target load set value input from a host computer and a value obtained by feeding back an

actual load, and controls an increase or decrease of the fuel for the combined plant according to a second difference obtained by comparing an actual revolution number of the gas turbine with the revolution number command, the fuel control apparatus comprising:

- 5 an input unit that receives input about a target load set value from a host computer, an actual load, and an actual revolution number of the gas turbine;
- a trigger unit that detects an engagement period and a disengagement period of the clutch to output a period detected signal;
- 10 a calculation unit that, when receiving the detected signal, substitutes a predetermined constant value for the revolution number command stored on a memory for a fixed period from the receipt of the detected signal, and determines a control output for a fuel control valve by multiplying the revolution number command being the constant value
- 15 by a gain; and
- an output unit that outputs the control output to the fuel control valve.